BURK
TECHNOLOGY

E.A.S
VERSION 1.15 UPDATE GUIDE

INTRODUCTION

This document is a guide for installing and using the Version 1.15 firmware update for the E.A.S. unit. This guide deals *only* with changes that have been made since Version 1.12, and it assumes the user's familiarity with this earlier version. The new features have been implemented without affecting the structure or appearance of the user interface, so you won't need to re-learn the system to make use of this new version.

WHAT'S NEW

Version 1.15 adds the following event codes:

AVW   Avalanche Warning
AVA   Avalanche Watch
CAE   Child Abduction Emergency
CDW   Civil Danger Warning
CFW   Coastal Flood Warning
CFA   Coastal Flood Watch
DSW   Dust Storm Warning
EQW   Earthquake Warning
FRW   Fire Warning
HMW   Hazardous Materials Warning
LEW   Law Enforcement Warning
LAE   Local Area Emergency
NMN   Network Message Notification
TOE   911 Telephone Outage Emergency
NUW   Nuclear Power Plant Warning
RHW   Radiological Hazard Warning
SPW   Shelter in Place Warning
SMW   Special Marine Warning
TRW   Tropical Storm Warning
TRA   Tropical Storm Watch
VOW   Volcano Warning

GETTING STARTED

Updating the firmware in your EAS requires a PC and the EAS Update program. The update program can be downloaded from the support section of our website at www.burk.com.

Computer Requirements:
Before running the update utility, verify that your computer meets the following minimum system requirements:

- MS-DOS compatible operating system, including Microsoft® Windows
- 300 MHz or less processor*
- 2MB RAM
- Available COM port for direct connection

Using a Slowdown Utility

If you will be running this update on a computer faster than 300 MHz, you will need to use a slowdown utility to temporarily slow down the processing speed of your computer while the update program is running. We recommend a program called SLOWDOWN written by Bret Johnson. You can download this program at http://members.aol.com/bretjohn/. Please consult the documentation included with SLOWDOWN for instructions on slowing down your computer.

Connecting your PC to the EAS

To upload version 1.15 to your EAS, you will need to directly connect your PC to the EAS using a standard null-modem cable. The pin-outs for this cable are as follows:

	DB-9F (Computer)	DB-9F (EAS)			DB-25F (Computer)	DB-9F (EAS)	
RxD	Pin 2	Pin 3	TxD	TxD	Pin 2	Pin 2	RxD
TxD	Pin 3	Pin 2	RxD	RxD	Pin 3	Pin 3	TxD
GND	Pin 5	Pin 5	GND	CTS	Pin 5	Pin 7	RTS
CTS	Pin 8	Pin 7	RTS	GND	Pin 7	Pin 5	GND

INSTALLING THE UPDATE

In order to update your EAS, the existing firmware will be erased and replaced with the newer version. This needs to be done to make room for the new application, as well as minimize the possibility of confusion or error within the EAS System itself. Your previous configuration settings, however, will be retained.

1. Connect one end of the null-modem cable to the available COM 1 or COM 2 port on your PC, and connect the other end to the 9-pin connector labeled "J7 CHAR. GEN" on the back of the EAS System.

2. Unzip the EAS Update utility to a new directory on your hard drive (for example, C:\EAS115) or to a floppy disk.

3. Open a new DOS prompt to the directory where you unzipped these files. If you are in Windows, you can open the command prompt by clicking on Start, then Run, and type *command*. If your command prompt is not in the correct directory, use the change directory command (ie. CD <new path>) to switch to the correct location.

4. If you are using your PC's COM port 1, type UPDATE 1 at the prompt and hit ENTER. If you are using COM port 2, type UPDATE 2 and hit ENTER. You should see the following text appear on screen:

    ```
    EAS Programming Utility

    This utility will reprogram the EAS system with the latest
    software revision: Rev. 1.15. This will take about 15 minutes.

    Press q to quit or enter to continue
    ```

5. Press ENTER to continue. The screen will display the following:

    ```
    Sending Boot Message to EAS System
    Cycle power on the EAS System to start reprogramming
    ```

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Cycle the power on your EAS unit. When power has been re-established, the EAS will start to run a self-test. If the connection between your PC and the EAS is successful, this self-test will not be completed and the EAS will begin receiving the new programming from the PC. Interruption of the self-test is normal.

Once the programming of your EAS has started, your computer screen will begin filling with rows of dots indicating the progress of the update. The number of dots generated at each stage of the update will vary.

If the connection between your PC and the EAS is not successful, you will know by one of the following indications:

• The EAS System finishes the self-test and displays the READY menu
• The first row of dots indicating progress is a complete line instead of a short row.

If either case occurs, check that the null-modem cable is firmly connected to the right ports and that the pinouts are as described previously. After verifying the cable, try the update again. If the connection continues to fail, please contact customer support.

6. When the update has completed, you will see the following message:

   `Assertion failed: main (): Error starting RCHECK`

   You should see the following on the front display of your EAS:

   ```
   RS-485 Test
   Internal Loop
   SUCCESS
   ```

7. Cycle the power on your EAS unit to complete the update. When power has been re-established, the EAS will run through a self-test. After this self-test has completed, you will see the following screen for several seconds:

   ```
   E.A.S Version 1.15
   Burk Technology
   (978) 486-0086
   ```

   Verify that the version listed is 1.15. If you do not see this version number, the update has failed to load. Check the connections and try it again. If it still fails to load, please contact customer support.

8. Disconnect the PC from the EAS System by removing the null-modem cable.

GETTING HELP

Detailed setup and configuration instructions for your EAS may be found in the Installation manual. If you still need help, please visit the support section of the Burk Technology web site at www.burk.com, or contact Burk Technology customer support.

Tel: 978-486-3711
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